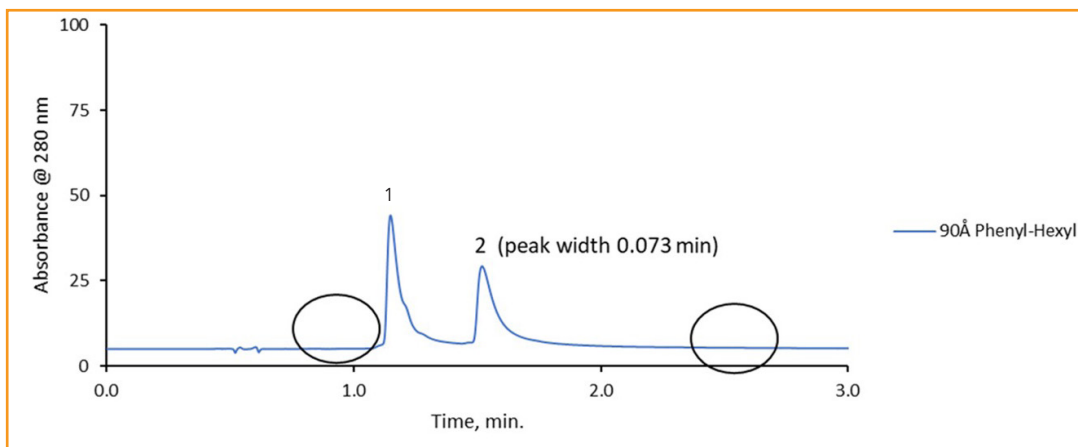
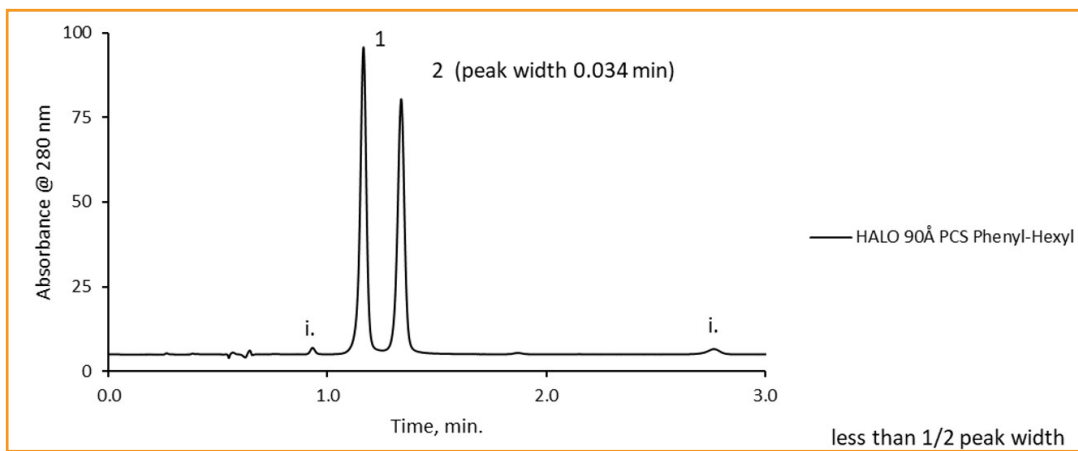




Separation of Tetracyclines Using HALO 90 Å PCS Phenyl-Hexyl

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TEST CONDITIONS:

Column: HALO 90 Å PCS Phenyl-Hexyl, 2.7µm, 2.1 x 100 mm

Part Number: 92812-618

Column: Phenyl-Hexyl: 2.7 µm, 2.1 x 100 mm

Mobile Phase A: Water, 0.1% Formic Acid

Mobile Phase B: Acetonitrile, 0.1% Formic Acid

Isocratic: HALO® PCS Phenyl-Hexyl: 12 %B

Phenyl-Hexyl: 18 %B

Flow Rate: 0.4 mL/min

Back Pressure: 206 bar

Temperature: 35 °C

Injection: 1.0 µL

Sample Solvent: 90/10 Water/ACN

Wavelength: PDA, 280 nm

Flow Cell: 1 µL

Data Rate: 100 Hz

Response Time: 0.05 sec.

LC System: Shimadzu Nexera X2

PEAK IDENTITIES:

1. Oxytetracycline

2. Tetracycline

i = impurity

Tetracyclines are a class of medications used to treat various types of bacterial infections. The positive charged surface (PCS) stationary phase is used to improve the peak widths for basic analytes when compared to a more traditional (uncharged) Phenyl-Hexyl stationary phase. Higher loading capabilities of PCS also allows for easier detection of impurities within a sample. (as indicated above)